

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L3    | 0    | recommendation with ("query log" and (search\$3 with pattern\$1))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2004/12/29 16:27 |
| L4    | 0    | recommendation with "query log"                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2004/12/29 16:27 |
| L5    | 7    | recommendation same "query log"                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2004/12/29 16:30 |
| L6    | 13   | recommendation and "query log" and (search\$3 with pattern\$1)      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2004/12/29 16:40 |
| L7    | 19   | recommendation and (query with log) and (search\$3 with pattern\$1) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2004/12/29 16:40 |
| L8    | 6    | 7 not 6   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2004/12/29 17:08 |
| L9    | 241  | recommendation with query   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2004/12/29 17:08 |
| L10   | 247  | recommendation with quer\$3   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2004/12/29 17:09 |
| L11   | 465  | recommendation with search\$3                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2004/12/29 17:09 |
| L12   | 64   | 10 and 11   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2004/12/29 17:09 |

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| L13 | 9   | 12 and (expand\$3 with quer\$3)                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/12/29 17:10 |
| L14 | 9   | 13 and cluster\$3                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/12/29 17:21 |
| L15 | 555 | "recommendation system"                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/12/29 17:22 |
| L16 | 170 | 15 and recommendation and quer\$3              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/12/29 17:22 |
| L17 | 16  | 16 and ((expand\$3 or extend\$3) with quer\$3) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/12/29 17:23 |
| L18 | 16  | 17 and cluster\$1                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/12/29 17:23 |

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| S1    | 3    | "09305844"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2004/03/05 10:57 |
| S2    | 2    | ("6493702").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2004/03/05 10:59 |
| S3    | 1    | S2 and (augment with quer\$3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2004/03/05 10:59 |
| S5    | 0    | S3 and((data with min\$3) or (usage with min\$3))                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2004/03/05 11:02 |
| S6    | 0    | S3 and ((data with min\$3) or (usage with min\$3))                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2004/03/05 11:11 |
| S7    | 0    | S3 and (query with log\$1) and pattern and profile                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2004/03/05 11:03 |
| S8    | 1    | S3 and (recommendation same search) and index and xml and query and expan\$4 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2004/03/05 11:04 |
| S9    | 1626 | (expand\$3 or extend\$3) with quer\$3  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2004/03/03 20:37 |
| S10   | 354  | ((expand\$3 or extend\$3) with quer\$3) and cluster\$3                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2004/03/03 20:38 |

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| S11 | 56    | ((expand\$3 or extend\$3) with quer\$3) and cluster\$3) and (user with profile)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/03 20:38 |
| S12 | 31    | ((((expand\$3 or extend\$3) with quer\$3) and cluster\$3) and (user with profile)) and log and pattern   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/04 10:09 |
| S13 | 21    | (((((expand\$3 or extend\$3) with quer\$3) and cluster\$3) and (user with profile)) and log and pattern) and (search with pattern)               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/03 20:45 |
| S14 | 21    | ((((((expand\$3 or extend\$3) with quer\$3) and cluster\$3) and (user with profile)) and log and pattern) and (search with pattern)) and quer\$3 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/03 20:45 |
| S15 | 307   | ((expand\$3 or extend\$3) with quer\$3) and (user with (profile or preference))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/04 10:15 |
| S16 | 51    | ((expand\$3 or extend\$3) with quer\$3) and (user with (profile or preference))) and recommendation  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/04 10:15 |
| S17 | 17    | ((((expand\$3 or extend\$3) with quer\$3) and (user with (profile or preference))) and recommendation) and (data with min\$3)                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/04 10:23 |
| S18 | 17    | (((((expand\$3 or extend\$3) with quer\$3) and (user with (profile or preference))) and recommendation) and (data with min\$3)) and quer\$3      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/04 16:50 |
| S19 | 28972 | search and query   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/04 16:50 |
| S20 | 764   | (search and query) and (quer\$3 near3 (expan\$4 or exten\$4))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/04 16:52 |

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| S21 | 223 | ((search and query) and (quer\$3 near3 (expan\$4 or exten\$4)) ) and (user with (profile or preference))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/04 16:53 |
| S22 | 37  | ((((search and query) and (quer\$3 near3 (expan\$4 or exten\$4)) ) and (user with (profile or preference))) and recommendation   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/04 16:53 |
| S23 | 34  | ((((search and query) and (quer\$3 near3 (expan\$4 or exten\$4)) ) and (user with (profile or preference))) and (cluster with (document or data or information or result\$1)))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/04 17:04 |
| S24 | 63  | (((((search and query) and (quer\$3 near3 (expan\$4 or exten\$4)) ) and (user with (profile or preference))) and recommendation) or (((search and query) and (quer\$3 near3 (expan\$4 or exten\$4)) ) and (user with (profile or preference))) and (cluster with (document or data or information or result\$1))))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/04 16:55 |
| S25 | 13  | (((((search and query) and (quer\$3 near3 (expan\$4 or exten\$4)) ) and (user with (profile or preference))) and recommendation) or (((search and query) and (quer\$3 near3 (expan\$4 or exten\$4)) ) and (user with (profile or preference))) and (cluster with (document or data or information or result\$1)))) ) and ((query adj log) or (search with pattern))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/04 16:55 |
| S26 | 26  | (((((search and query) and (quer\$3 near3 (expan\$4 or exten\$4)) ) and (user with (profile or preference))) and (cluster with (document or data or information or result\$1))) not ((((((search and query) and (quer\$3 near3 (expan\$4 or exten\$4)) ) and (user with (profile or preference))) and recommendation) or (((search and query) and (quer\$3 near3 (expan\$4 or exten\$4)) ) and (user with (profile or preference))) and (cluster with (document or data or information or result\$1)))) ) and ((query adj log) or (search with pattern)) ) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/04 18:25 |

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| S27 | 46221 | (data with min\$3) or (usage with min\$3)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/04 18:26 |
| S28 | 152   | ((data with min\$3) or (usage with min\$3)) and (query with log\$1) and pattern and profile   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/04 18:57 |
| S29 | 5     | ((((data with min\$3) or (usage with min\$3)) and (query with log\$1) and pattern and profile) and (recommendation same search) and index                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/04 18:27 |
| S30 | 5     | (((((data with min\$3) or (usage with min\$3)) and (query with log\$1) and pattern and profile) and (recommendation same search) and index) and xml                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/04 18:32 |
| S31 | 2     | ((((((data with min\$3) or (usage with min\$3)) and (query with log\$1) and pattern and profile) and (recommendation same search) and index) and xml) and query) and expan\$4 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/05 11:01 |
| S32 | 5     | ((((((data with min\$3) or (usage with min\$3)) and (query with log\$1) and pattern and profile) and (recommendation same search) and index) and xml) and query               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/12/29 16:25 |
| S33 | 247   | olap and "data mining"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/04 18:56 |
| S34 | 4     | (olap and "data mining") and (query with log\$1) and pattern and profile  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/04 18:59 |
| S35 | 1     | ((olap and "data mining") and (query with log\$1) and pattern and profile) and (expan\$4 or augment)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/04 18:58 |
| S36 | 825   | (expan\$4 or augment) with quer\$3  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/04 18:58 |

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| S37 | 82 | ((expan\$4 or augment) with quer\$3) and ("data mining" or "usage mining")  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/04 18:59 |
| S38 | 4  | ((expan\$4 or augment) with quer\$3) and ("data mining" or "usage mining")) and (query with log\$1) and pattern and profile | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/03/04 18:59 |